

Eric Anderson Dubinsky

Ecology Department, Lawrence Berkeley National Laboratory
One Cyclotron Road, MS 70A-3317, Berkeley, CA 94720
Phone: 510.486.5022 Email: eadubinsky@lbl.gov

RESEARCH INTERESTS

- Structure and function of microbial communities
- Microbial controls on ecosystem processes
- Human impacts on biogeochemical cycles
- Interactions between terrestrial and aquatic ecosystems
- Microbial source tracking

EDUCATION

Ph.D. Environmental Science, Policy, & Management, University of California, Berkeley

M.A. Biology, University of Pennsylvania, Philadelphia

B.A. Biology, University of Pennsylvania, Philadelphia

PROFESSIONAL APPOINTMENTS

- Project Scientist, Earth Sciences Division, Lawrence Berkeley National Laboratory (2013-present)
- Postdoctoral Scientist, Earth Sciences Division, Lawrence Berkeley National Laboratory (2008-2013)
- Research Associate, Department of Integrative Biology, University of California, Berkeley (1999-2001)
- Biologist, Tetra Tech EM, Inc., San Francisco, CA (1997-1999)
- Research Fellow (NNEMS), U.S. Environmental Protection Agency, Corvallis, OR (1995-1997)

PUBLICATIONS

Smith, M.B., Rocha, A.M., Smillie, C.S., Olesen, S.W., Paradis, C., Wu, L., Campbell, J.H., Fortney, J.L., Mehlhorn, T.L., Lowe, K.A., Earles, J.E., Phillips, J., Techtmann, S.M., Joyner, D.C., Elias, D.A., Bailey, K.L., Hurt, R.A., Jr., Preheim, S.P., Sanders, M.C., Yang, J., Mueller, M.A., Brooks, S., Watson, D.B., Zhang, P., He, Z., **Dubinsky, E.A.**, Adams, P.D., Arkin, A.P., Fields, M.W., Zhou, J., Alm, E.J. and Hazen, T.C. 2015. Natural bacterial communities serve as quantitative geochemical biosensors. *mBio* 6:e00326-15

Probst, A.J., P. Y. Lum, B. John, **E. A. Dubinsky**, Y. M. Piceno, L. M. Tom, G. L. Andersen, Z. He and T. Z. DeSantis. 2014. Microarray of 16S rRNA Gene Probes for Quantifying Population Differences Across Microbiome Samples. In Z. He. (Ed.). *Microarrays: Current Technology, Innovations and Applications*. Caister Academic Press, Norfolk, England.

Dubinsky, E.A., M.E. Conrad, R. Chakraborty, S. E. Borglin, J. T. Hollibaugh, M. Bill, O. U. Mason, Y. M. Piceno, F. C. Reid, W. T. Stringfellow, L. M. Tom, T. C. Hazen, G. L. Andersen. 2013. Succession of Hydrocarbon-Degrading Bacteria in the Aftermath of the *Deepwater Horizon* Oil Spill in the Gulf of Mexico. *Environmental Science & Technology* 47:10860-10867.

Cao, Y., L.C. Van De Werfhorst, **E. A. Dubinsky**, B. D. Badgley, M. J. Sadowsky, G. L. Andersen, J. F. Griffith and P. A. Holden. 2013. Evaluation of Molecular Community Analysis Methods for Discerning Fecal Sources and Human Waste. *Water Research* 47: 6862-6872.

Stewart, J.R., A.B. Boehm, **E.A. Dubinsky**, T.T. Fong, K.D. Goodwin, J.F. Griffith, R.T. Noble, O.C. Shanks, K. Vijayaveli, and S.B. Weisberg. 2013. Recommendations Following a Multi-Laboratory Comparison of Microbial Source Tracking Methods. *Water Research* 47:6829-6838.

Aronson, E.L., **E. A. Dubinsky** and B. R. Helliker. 2013. Effects of nitrogen addition on soil microbial diversity and methane cycling capacity depend on drainage conditions in a pine forest soil. *Soil Biology & Biochemistry* 62:119-128.

Dubinsky, E.A., L. Esmaili, J. R. Hulls, Y. Cao, J. F. Griffith and G. L. Andersen. 2012. Application of phylogenetic microarray analysis to discriminate sources of fecal pollution. *Environmental Science & Technology* 46:4340-4347.

Mason, O.U., T.C. Hazen, S. Borglin, P.S. Chain, **E. A Dubinsky**, J. L. Fortney, J. Han, H. N. Holman, J. Hultman, R. Lamendella, R. Mackelprang, S. Malfatti, L. M. Tom, S. G. Tringe, T. Woyke, J. Zhou, E. M. Rubin and J. K. Jansson. 2012. Metagenome, metatranscriptome and single-cell sequencing reveal microbial response to Deepwater Horizon oil spill. *ISME Journal* 6:1715-1727.

Izbicki, J.A., P.W. Swarzenski, C.A. Burton, L.C. Van DeWerfhorst, P.A. Holden and **E.A. Dubinsky**. 2012. Sources of fecal indicator bacteria to groundwater, Malibu Lagoon, and the near-shore ocean, Malibu, California, USA. *Annals of Environmental Science* 6:35-86.

Lu, Z., Y. Deng, J. D. Van Nostrand, Z. He, J. Voordeckers, A. Zhou, Y. Lee, O. U. Mason, **E.A. Dubinsky**, K. Chavarria, L. Tom, J. Fortney, R. Lamendella, J. K. Jansson, P. D'haeseleer, T. C. Hazen and J. Zhou. 2012. Microbial gene functions enriched in the Deepwater Horizon deep-sea oil plume. *ISME Journal* 6:451-460.

Lam, V., J. E. Moulder, N. H. Salzman, **E. A. Dubinsky**, G. L. Andersen and J. E. Baker. 2012. Intestinal microbiota as novel biomarkers of prior radiation exposure. *Radiation Research* 177:573-583.

Chakraborty, R., S. E. Borglin, **E. A. Dubinsky**, G. L. Andersen and T. C. Hazen. 2012. Microbial response to the MC252 Oil and Corexit 9500 in the Gulf of Mexico. *Frontiers in Microbiology* 3:357 (doi:10.3389/fmicb.2012.00357).

Treseder, K.K., T. C. Balser, M. A. Bradford, E. L. Brodie, **E. A. Dubinsky**, V. T Eviner, K. S. Hofmockel, J. T Lennon, U. Y. Levine, B. J. MacGregor, J. Pett-Ridge and M. P. Waldrop. 2012. Integrating microbial ecology into ecosystem models: Challenges and priorities. *Biogeochemistry* 109:7-18.

Hazen, T. C., **E. A. Dubinsky**, T. Z. DeSantis, G. L. Andersen, Y. M. Piceno, et al. 2010. Deep-sea oil plume enriches indigenous oil-degrading bacteria. *Science* 330:204-208.

Dubinsky, E.A., W.L. Silver and M.K. Firestone. 2010. Tropical forest soil microbial communities couple iron and carbon biogeochemistry. *Ecology* 91:2604-2612.

Teh, Y.A., **E. A. Dubinsky**, W.L. Silver and C.M. Carlson. 2008. Suppression of methanogenesis by dissimilatory Fe(III)-reducing bacteria in tropical rain forest soils: implications for ecosystem methane flux. *Global Change Biology* 14:413-422.

Chacon, N., W.L. Silver, **E.A. Dubinsky** and D. Cusack. 2006. Reduction of amorphous iron oxides and phosphorus release in wet tropical soils: Implications of labile carbon sources and electron shuttles. *Biogeochemistry* 78:67-84.